PRELIMINARY

JOEL H. PATTERSON III, PLS
NC LICENSE NUMBER L-3717

TIMBER LAKE DRIVE
45' PUBLIC R/W
(PLAT BOOK 52 PAGE 44)

Plat Book 52
Page 43
Dated 8/28/2007

GRAPHIC SCALE

50 0 25 50

(IN FEET)
1 inch = 50 ft.

LINE	BEARING	DISTANCE
L1	N09°53'01"W	24.63'
L2	S01°31'33"E	36.08'
L3	S21°29'51"E	39.92'
L4	S47°09'32"E	1.00'

CURVE	RADIUS	ARC	CHORD BEARING	CHORD
C1	177.50'	124.40'	N02°22'45"W	121.87'

R/W

C1

R=30'

50' SETBACK

B 100' Repair

O 80' Repair

75'

W 75'

R 75'

B 75'

O 55' Repair

Construction Driveway

12'

PH

P

15' SIDEYARD

15' SIDEYARD

Drive

N58°52'30"E 375.08'

LOT 633
1.010 ACRES

14.5'
13.5'
21.5'
13.5'
20.5'
Proposed House
40.5'
30.0'
7.5'
46.7'

S58°52'30"W 398.10'

T=19.1

PARCEL 4639-29-4878
LOT 633
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PARCEL 4638-29-5637
LOT 631
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SILT FENCE

50' REARYARD & VEGETATIVE BUFFER

N44°44'19"E 50.03'

L4 L3 L2 L1

~ LAKE NORMAN ~

1. THIS PROPERTY MAY BE SUBJECT TO ANY EASEMENTS, RIGHTS-OF-WAY, AND/OR RESTRICTIVE COVENANTS.
2. BOUNDARY INFORMATION BASED ON PLAT BOOK 52 PAGES 43-45 AS RECORDED IN THE MECKLENBURG COUNTY REGISTER OF DEEDS.
3. NO NGS OR USGS MONUMENTS COULD BE LOCATED WITHIN 2000'.
4. AREA BY COORDINATE METHOD.
5. EACH LOT HAS A 10' STORM DRAINAGE AND UTILITY EASEMENT

PLOT PLAN SURVEY
LOT 632, FALLS COVE-PARKWOOD SUBDIVISION
PHASE 6, MAP 1
PLAT BOOK 52 PAGES 43-45

Lot 632 Falls Cove Subdivision Fast Track

Number of Bedrooms	**3**
Basement or Crawl	**Basement with Plumbing**
Design Flow (gpd)	**360**
Primary System LTAR (gpd/ft2)	**0.3 (Per Existing Permit)**
Primary System Type	**25% Reduction**
No. Lines	4 (See Table)
Total Linear Feet	300
Trench Width	3' min.
Trench Spacing	9' min.
Trench Depth (low side)	36" **(Per Existing Permit)**
Pump Required	Yes
Distribution Device	Pressure Manifold
Maintenance Agreement Required	No
Length and Diameter of Supply Pipe	180' of 2" SCH 40 PVC
Flow Rate through the system	22 gpm
Elevation head	Approx. 22.1'
Pressure head	2.0'
Friction head	1.5
20% Contingency	5.1'
Total Head	30.7'
Pump Requirements	22 gpm @ 30.7' of head To be designed by installer.
Maximum Dosing Volume	180 gal -2.0 doses/day @ design flc
Volume of water pumped per dose	Calculated to specific tank by measure or dealer engineering specifications (1 cubic ft. of wate equals 7.48 gal.)
Pump Run per dose	approx. 8.2 min.
Repair System	**25% Reduction**
Total Linear Feet	335
Repair Loading Rate	0.3

Table: Summary of Primary and Repair Nitrification Line Specifications

Line No.	Use	Line Color	System Type	Line Length (Ft.)	Elevation (Ft.)
1	Repair	Red	25% Reduction	100	3
2	Repair	Blue	25% Reduction	100	
3	Repair	Orange	25% Reduction	80	
4	System	Pink	25% Reduction	75 endfed	
5	System	White	25% Reduction	75 endfed	
6	System	Red	25% Reduction	75 endfed	
7	System	Blue	25% Reduction	75 endfed	
8	Repair	Orange	25% Reduction	55	8.7
				Total System: 300'	
				Total Repair: 335'	

Tank	Red	1000 gal (2 compartment)	19.1
Pump Tank	Red	1000	
House	staked		

Manifold Information	
Tap Size (In.)	1/2
Tap Material	SCH 80 PVC
No. Taps	4
Barrel Size (In.)	4
Barrel Material	SCH 80 PVC
Flow (gpm)/Tap	5.5

Note: **Plan uses previously permitted septic and repair lines.**
Reducing bedrooms to 3 from 4, moving house uphill, new tank location
Elevations should be verified by installer prior to installation

DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL HEALTH
ON-SITE WASTEWATER SECTION

Sheet ___ of ___
PROPERTY ID #: _____
COUNTY: _____

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER: Falls Cove Dev. APPLICATION DATE _____
ADDRESS: _____ DATE EVALUATED: _____
PROPOSED FACILITY: SFD PROPOSED DESIGN FLOW (.1949): 480 GPD PROPERTY SIZE: _____
LOCATION OF SITE: Lot # 632 Parkwood SD OFF Mountain Farm Rd, PROPERTY RECORDED: _____
WATER SUPPLY: ☐ Private ☒ Public ☐ Well ☐ Spring ☐ Other _____
EVALUATION METHOD: ☐ Auger Boring ☒ Pit ☐ Cut TYPE OF WASTEWATER: ☒ Sewage ☐ Industrial Process ☐ Mixed

PROFILE #	.1940 LANDSCAPE POSITION/ SLOPE %	HORIZON DEPTH (IN.)	SOIL MORPHOLOGY (.1941) .1941 STRUCTURE/ TEXTURE	.1941 CONSISTENCE/ MINERALOGY	OTHER PROFILE FACTORS .1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	PROFILE CLASS & LTAR
1 (M)	L 8-12%	0-5	Mo, Gr, SL	VFr, NS, NP (Brwn)					PS 0,30
		5-30	Mo, sbk, C	Fr, SS, SP (Red)					
		30-55	Mo, sbk, CL	Fr, SS, SP (Red)	C-SAP				
2 (N)	L 6-10% 8%	0-4	WK, Gr, SL/SCL	Fr, SS, SP (Brwn)					PS 0,30
		4-26	Mo, sbk, C	Fr, SS, SP (Red)	F-SAP				
		26-40	Mo, sbk, CL	Fr, SS, SP (Red)	F-C-SAP				
		40-64	Mass, L-SAP	Fr, SS, SP (Mult)					
3		0-6	gr SL	fr ss sp					.30
		6-33	mo sbk R C	fr ss sp					
		33-39	wk sbk R Cl	fr ss sp	com sap				
		39-56	wk sbk R Cl	fr ss sp	many sap				
4		0-4	mo gr SL	vfr ss np					.30
		4-32	m sbk R C	fr ss sp					
		32-40	m/wk sbk R Cl	fr ss sp	few sap				
		40-59	wk sbk Cl	fr ss sp	com-many sap				

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)		
System Type(s)		
Site LTAR		

OTHER FACTORS (.1946): _____
SITE CLASSIFICATION (.1948): _____
EVALUATED BY: _____
OTHER(S) PRESENT: _____

COMMENTS: _____